



Leading by example,
saving energy and
taxpayer dollars in
federal facilities

The Federal Energy Management Program

FEMP works to reduce the cost and environmental impact of the federal government and increase energy security by advancing energy efficiency and water conservation, promoting the use of distributed and renewable energy, and improving utility management decisions at federal sites.

Now, more than ever before, the federal government—the largest single energy consumer in the United States—has a tremendous opportunity and a clear responsibility to lead the nation by example to greater energy efficiency and energy security.

This federal role is included in the President's National Energy Policy report. In the report, the President calls for America to modernize conservation efforts, increase energy supplies, “accelerate the

Chartered in 1973, FEMP's mandate is to lead the government toward more efficient use of energy resources. FEMP's challenge is to help agencies find smart energy-management solutions that will generate significant savings for taxpayers.

FEMP Services

Energy management is one of the most challenging tasks facing today's federal facility managers. They must ensure that energy supplies are reliable, that energy is used efficiently, and that costs are being reduced wherever possible.

Benefits

FEMP's services benefit facility managers, federal agencies, and the nation in many ways. These services—

- Demonstrate federal leadership in smart energy management.
- Save taxpayer dollars through guaranteed cost savings.
- Renew and rejuvenate federal buildings and related infrastructure at minimal cost to agencies.
- Protect air quality and conserve water.
- Contribute to the nation's energy and economic security.
- Increase market demand for advanced energy technologies.
- Help to provide emergency power during outages.
- Enhance energy supplies and improve reliability through distributed energy resources.
- Free up resources for other agency needs.
- Educate federal workers and the public about smart energy choices.



U.S. DOE/PIX12752

With a giant wind turbine blade as a backdrop, the Army and local and regional institutions announced renewable energy purchases in Washington, DC.

protection and improvement of the environment, and increase our nation's energy security.” The President also directs heads of executive departments and agencies to “take appropriate actions to conserve energy use at their facilities to the maximum extent consistent with the effective discharge of public responsibilities.”

The government is making considerable progress in this effort. Federal building-related energy costs have dropped more than 25 percent per square foot since 1985, thanks largely to the work of the U.S. Department of Energy's (DOE's) Federal Energy Management Program (FEMP) and its agency partners.



U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**

Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable

Federal Energy Management Program Overview

FEMP can help federal facility and energy managers achieve greater energy efficiency and cost-effectiveness in areas like these:

- New construction
- Building retrofits
- Equipment procurements
- Operations and maintenance (O&M)
- Utility management

FEMP also helps agencies obtain innovative technologies, leverage new private-sector partnerships, set an example for the nation in energy management, and, as a result, improve our energy security and environment. The program's services can be grouped into four main areas: financing, technical assistance, outreach, and policy.

U.S. DOE/PIX12753



At a recent FEMP-sponsored workshop, Brian Magden of the General Services Administration encouraged natural-gas local distribution companies to enter into UESC partnerships with their federal agency customers.

Financing

Agencies need dollars to make projects happen. FEMP's assistance helps federal agencies leverage funds through new financing partnerships with the private sector for energy efficiency improvements. The program assists agencies seeking project financing through methods like these:

- Energy savings performance contracts (ESPCs)
- Utility energy services contracts (UESCs)
- Rebates
- Public benefits funds

ESPCs allow private energy service companies (ESCOs) to fund the capital costs of energy- and water-saving equipment and renewable energy systems at federal facilities. The ESCO guarantees a fixed amount of energy cost savings throughout the term of the contract and is repaid directly from the agency's cost savings. FEMP's Super ESPCs allow agencies to negotiate with preselected ESCOs, saving time and money. FEMP also assists agencies with the measurement and verification requirements of ESPCs.

With its utility partners, FEMP also helps agencies take advantage of UESCs that offer long-term savings through multiyear contracts. Estimates indicate that the program's utility-related activities will leverage more than \$1 billion for energy projects between 1995 and



U.S. DOE/PIX12754

A new 7.2-megawatt combined heat and power system for the Marine Air-Ground Task Force Training Command (MAGTFC), Twentynine Palms, California, was dedicated in 2003; the ribbon-cutting ceremony included (left to right) Mark Duszynski, Johnson Controls; Arun Jhaveri, FEMP; Col. James D. Nichols, commander, MAGTFC; and Lt. Cmdr. Robert W. Tye, USN.



U.S. DOE/PIX12755

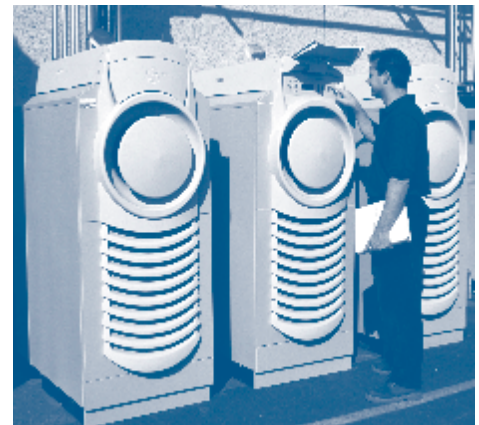
2005. FEMP can also assist agencies in obtaining state- or utility-sponsored rebates for energy-efficient improvements, and in applying for public benefits funds set aside to promote energy efficiency.

Technical Assistance

Technical assistance allows agencies to take advantage of innovative technologies and training opportunities. FEMP helps federal energy managers identify, design, and implement new construction and facility improvement projects. These projects can incorporate energy efficiency, renewable energy, distributed energy technologies, sustainable design practices, state-of-the art lighting, and water-saving technologies. FEMP provides unbiased, expert technical assistance in areas like these:

- Energy and water audits for buildings and industrial facilities
- Peak load management
- Whole-building design and sustainability

FEMP helps agencies take advantage of advanced energy technologies like these microturbines, which are natural-gas combustion turbines that produce about 30–250 kilowatts each.



Capstone Turbine Corp./PIX08130

- Renewable energy technologies
- Distributed energy resources
- Combined heat and power technologies
- Energy-efficient products
- Laboratory design
- New technology deployment

FEMP also provides analytic software tools for project screening to help agencies choose the most effective energy and water project investments. To learn from the experts first-hand, federal employees and others can enroll in FEMP's training programs and workshops in such areas as project financing, life-cycle costing, O&M, and sustainable design.

Outreach

Outreach helps agencies learn about new energy-saving strategies, gain recognition for outstanding energy achievements, and keep current on the government's progress in meeting mandated energy management goals and challenges. FEMP's communications and recognition programs enhance federal employees' awareness of the benefits of energy efficiency, and they reward exemplary energy leadership. Outreach efforts include these:

- *FEMP Focus* newsletter
- FEMP's Web site and Information Center
- *You Have the Power* campaign
- Annual awards, workshops, and exposition

The *FEMP Focus* newsletter goes out four times a year to nearly 10,000 federal energy and facility managers, procurement officials, and others. In 2003, almost 370,000 people visited the FEMP Web site (www.eere.energy.gov/femp). And FEMP's Information Center (toll free: 877-337-3463) sends timely information to thousands of people each year.

Twenty federal agencies actively participate in FEMP's *You Have the Power* awareness campaign. The campaign disseminates timely and topical information through handouts, posters, special publications, and other targeted outreach materials.

FEMP's awareness and awards programs recognize individuals, groups, and agencies for their outstanding contributions to energy efficiency, water conservation, and the use of advanced and renewable energy technologies in federal facilities. At FEMP's annual workshop and exposition—co-sponsored by the Department of Defense and the General Services Administration—expert speakers, educational sessions, and exhibits provide information to nearly a thousand federal attendees.

In 2003, 20 exemplary facilities were designated Federal Energy Saver Showcases. Annual Federal Energy and Water Management Awards were presented to 37 individuals, small groups, and



U.S. DOE/PIX12756

In 2003, the Department of Veterans Affairs was honored for having 18 ENERGY STAR®-rated hospitals among the 150 assessed in a benchmarking study. At the podium is Robert H. Roswell, Under Secretary for Health, VA. In the foreground (left to right) are David K. Garman, Assistant Secretary, Energy Efficiency and Renewable Energy, DOE; Terry Gerigk, Associate Director, Pittsburgh Healthcare System, accepting the award; Christine Todd Whitman, former Environmental Protection Agency Administrator; and Anthony J. Principi, Secretary, VA.

organizations for the twenty-third year. And Presidential Awards for Energy Management, presented in cooperation with the Office of Management and Budget, honored outstanding energy management teams from the General Services Administration and the Departments of Defense, Commerce, and Health and Human Services.

Policy

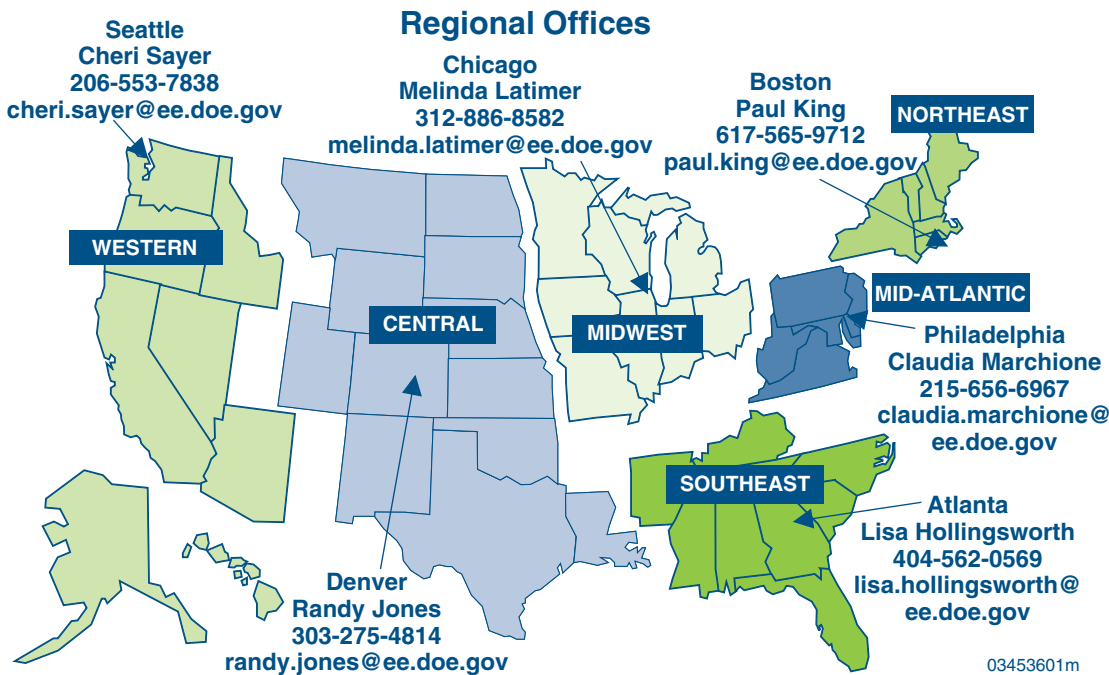
Policy-related activities ensure coordination among the many agencies working to meet national energy-use goals. The Energy Policy Act of 1992, recent Executive Orders, and Presidential Directives all require federal agencies to reduce their energy use by 35 percent from 1985 levels by 2010. Federal agencies rely on effective coordination and sound guidance to help them meet this requirement. FEMP reports agencies' progress annually, manages interagency working groups, and offers policy guidance and direction. Policy efforts include these:

- Annual Report to Congress and the President
- Interagency Federal Energy Management Task Force
- Policy guidance
- Legislative updates and tracking

Comprehensive SAVEnergy audits identify energy- and water-saving measures in federal buildings such as the Capitol in Washington, DC, where Congress passes laws pertaining to federal energy management.



Greening America/PIX12696

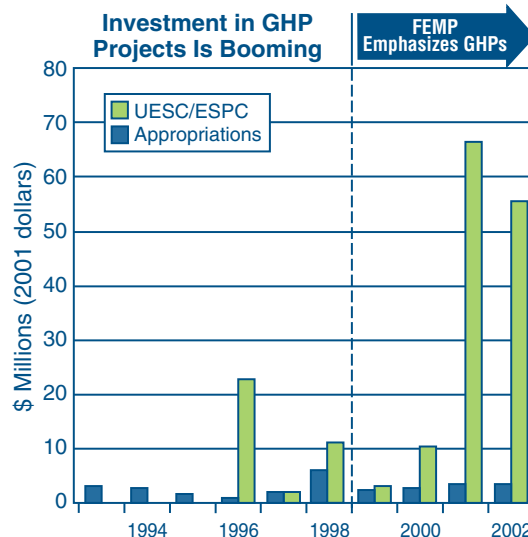


DOE regional representatives—your first contact for expert guidance and energy-saving solutions.

FEMP is also the lead agency in coordinating activities of the Federal Energy Management Advisory Committee, which provides advice on a broad range of topics. The committee considers and advises on such important issues as how to expand federal use of ESPCs and UESCs, sustainable building design, and advanced energy technologies.

How To Contact FEMP

You may contact us—either at DOE Headquarters or through your DOE Regional Office FEMP representative (see map)—for more information and to begin your important contribution to national goals for energy use. Your leadership in energy management is vital to America's future.



For More Information

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General Services Administration/PIX12133



The GSA, assisted by EPA and FEMP, installed a grid-connected photovoltaic system on Chicago's Metcalfe Federal Building, a recent Energy Saver Showcase winner; the system provides electricity while reducing carbon dioxide emissions.

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

For more information contact:
 EERE Information Center
 1-877-EERE-INF (1-877-337-3463)
www.eere.energy.gov/femp



U.S. Department of Energy

Energy Efficiency and Renewable Energy

Bringing you a prosperous future where energy is clean, abundant, reliable, and affordable

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